



Ex position switch Ex 98

Features/Options:

- Ex zone 1 and 21
- Cold-resistant down to -40 °C
- Metal enclosure
- Design to EN 50041
- Wiring compartment
- Available with contact overlapping
- Actuator can be repositioned by 4 x 90°
- Rocking lever can be repositioned by 10° steps
- Special version only for gas Ex zone 2 and dust Ex zone 22 available
- N.B.: Please state required international approvals with your order!

Technical data

Applied standards	EN 60947-5-1; EN 60079-0, EN 60079-1, EN 60079-7, EN 60079-31; EN ISO 13849-1; EN ISO 14119
Enclosure	Corrosion-resistant aluminium, powder-coated, similar to RAL 7016
Cover	Stainless steel 1.4401, powder-coated, similar to RAL 1003
Switch type	type 1
Coding level	no coding
Degree of protection	IP 66 to IEC/EN 60529
Contact material	silver
Switching system	slow or snap action, positive break NC contacts \ominus ; positive break depends on the actuator used
Switching elements	1 NC/1 NO, 2 NC or 1 NC/1 NO contact with contact overlapping, type Zb
Connection	screw connection terminals
Cable cross-section	min. 0,75 mm ² / AWG 18, max. 1,5 mm ² / AWG 16, incl. conductor ferrules
Cable entry	1 x M20 x 1.5 (incl. 1 cable gland)
Clamping range	7 ... 13 mm
B _{10d} (10 % load)	2 million
T _M	max. 20 years
Rated impulse withstand voltage U _{imp}	4 kV
Rated operating isolation voltage U _i	250 V
Rated operating current I _e	max. 4.4 A T6 / max. 6.6 A T5
Rated operating voltage U _e	max. 250 VAC; 125 VDC
Utilisation category	AC-15; DC-13
Max. fuse rating	6 A gG/gN fuse

Errors and omissions excepted.



Ex position switch Ex 98

Technical data

Ambient temperature	T6: -40° C ... +70° C (max. 4.4 A) T5: -40° C ... +70° C (max. 6.6 A)
Mechanical life	> 1 million operations
Operation cycles	max. 1800/h
Repeat accuracy of switching points	± 0.1 mm
Impact energy	max. 7 J
Ex marking	⊕ II 2G Ex de IIC T6/T5 Gb, ⊕ II 2D Ex tb IIIC T80 °C/T95 °C Db IECEX Ex de IIC T6/T5 Gb, Ex tb IIIC T80 °C/T95 °C Db
Approvals	DMT 01 ATEX E 178 IECEX BVS 07.0014



Ordering details



Plunger
* with safety function

Type
Ex ES 98-11 -40°C
Ex ES 98-02 -40°C
Ex ES 98-11U -40°C

Ex EM 98-11 -40°C

Material no.
1387893
1400705
1400703

1407644



Roller plunger R
* with safety function

Type
Ex ES 98 R-11 -40°C
Ex ES 98 R-02 -40°C
Ex ES 98 R-11U -40°C

Ex EM 98 R-11 -40°C

Material no.
1400709
1400713
1400711

1442200



Ex position switch Ex 98

Ordering details



Roller lever H

* with safety function

Type

Ex ES 98 H-11 -40°C
Ex ES 98 H-02 -40°C
Ex ES 98 H-11U -40°C

Material no.

1400717
1400721
1400719

Ex EM 98 H-11 -40°C

1409658



Parallel roller lever PH

* with safety function

Type

Ex ES 98 PH-11 -40°C
Ex ES 98 PH-02 -40°C

Material no.

1400725
1400729

Ex EM 98 PH-11 -40°C

1410011



Rocking lever D

* with safety function

Type

Ex ES 98 D-11 -40°C
Ex ES 98 D-02 -40°C
Ex ES 98 D-11U -40°C

Material no.

1400733
1400737
1400735

Ex EM 98 D-11 -40°C

1409961



Long rocking lever DL

* with safety function

Type

Ex ES 98 DL-11 -40°C
Ex ES 98 DL-02 -40°C
Ex ES 98 DL-11U -40°C

Material no.

1400741
1400745
1400743

Ex EM 98 DL-11 -40°C

1442030



Adjustable rocking lever DS

Type

Ex ES 98 DS-11 -40°C
Ex ES 98 DS-02 -40°C
Ex ES 98 DS-11U -40°C

Material no.

1400749
1400753
1400751

Ex EM 98 DS-11 -40°C

1442493



Ex position switch Ex 98

Ordering details



Rod lever DD

Type

Ex ES 98 DD-11 -40°C

Ex ES 98 DD-02 -40°C

Ex ES 98 DD-11U -40°C

Ex EM 98 DD-11 -40°C

Material no.

1400757

1400761

1400759

1442593